

遺伝子科学研究開発部

概要

遺伝子科学研究開発部では、重点研究を推進するために、平成 17 年度より遺伝子科学研究開発プロジェクトを募集し、採択された課題を平成 16 年度に設置した遺伝子組換え動植物の飼育・培養設備（遺伝子実験施設 2 階）で実施している。第 1 期は平成 17 年度～平成 19 年度、第 2 期は平成 20 年度～22 年度、第 3 期は平成 23 年度～25 年度、第 4 期は平成 26 年度～28 年度で、昨年度より第 5 期を 3 年間で実施している。第 5 期では、植物が 5 テーマ、動物（小型魚類に加え水産生物の受入）が 3 テーマで、所属部局は、理学研究科（4）、先端物質科学研究科（1）、生物圏科学研究科（1）、総合科学研究科（1）、自然科学研究支援開発センター（1）を重点支援した。なお、植物の研究テーマが 5 テーマで、さらにいくつかの問い合わせもあることから、栽培設備の拡張の必要性に迫られている。

第 5 期のプロジェクト研究は以下の通りである。

| 分類 | 研究テーマ名 | 所属部局等 | 研究代表者（職） |
|----|-----------------------------|----------------|-----------|
| 植物 | 植物の生存戦略解明と機能開発 | 理学研究科 | 坂本 敦（教授） |
| | 植物の葉老化制御機構の分子遺伝学的解析 | 理学研究科 | 草場 信（教授） |
| | 高等植物の細胞機能に関する研究 | 先端物質科学研究科 | 藤江 誠（准教授） |
| | 遺伝子組換えによる高ストレス耐性植物の作出に関する研究 | 生物圏科学研究科 | 江坂宗春（教授） |
| | 外来異種遺伝子導入による植物の機能変化の研究 | 自然科学研究支援開発センター | 田中伸和（教授） |
| 動物 | アリールスルファターゼ (Ars) の機能解析 | 理学研究科 | 中坪敬子（助教） |
| | 再生組織・器官の大きさを制御するメカニズムの解明 | 理学研究科 | 菊池 裕（教授） |
| | 無腸動物の飼育方法の開発と、発生学的、進化学的研究 | 総合科学研究科 | 彦坂 暁（准教授） |

【2018 遺伝子実験部利用申請者の研究業績】

総合科学研究科

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自然科学研究支援開発センター

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